IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Attention: OFFICE OF PETITIONS

Yoshio KUMADA et al.

Application No.: 10/626,553

Filed: July 25, 2003

Docket No.:

112536.98

For:

SLIDING BEARING

PETITION REQUESTING WITHDRAWAL OF **NOTICE OF INCOMPLETE REISSUE APPLICATION**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

A Notice of Incomplete Reissue Application (copy enclosed) was mailed August 10, 2004 for the above-identified application. The Notice asserts that the aboveidentified reissue application (which is a continuation of reissue Application No. 10/210,813) was filed without a specification, claims or drawings. The Notice also indicates that a Oath/Declaration, Consent of Assignee and Assignee's Statement under 37 C.F.R. 3.73(b) also should be submitted. It is respectfully submitted that this Notice was issued in error.

This application was filed on July 25, 2003 with 11 pages (including the abstract, 5 sheets of drawings, the specification and claims 1-30) (as noted above, this application is a continuation of reissue Application No. 10/210,813, and thus this filed continuation application was a photocopy of the originally-filed reissue application), a Rule 53(b) continuation Transmittal, a Preliminary Amendment and an Information Disclosure Statement (IDS) with PTO-1449 and references. Copies of all papers as filed on July 25, 2003 (except

for the IDS references, which are omitted here in order to simplify this filing) are attached. In addition, attached is the U.S. Patent and Trademark Office acknowledgment of receipt of the application, bearing the Patent Office's July 25, 2003 receipt date stamp, in which the Patent Office acknowledged receipt of <u>all</u> filed papers.¹

In addition, attached is a copy of a page dated July 25, 2003 from the Oliff & Berridge, PLC log book showing that this application was delivered to the U.S. Patent and Trademark Office on July 25, 2003, with the Rule 53(b) Transmittal, Preliminary Amendment, Reissue Application and Information Disclosure Statement.

In view of the foregoing evidence, it is respectfully submitted that this application was in fact received in the U.S. Patent and Trademark Office on July 25, 2003.

In view of the foregoing, this Petition requests the U.S. Patent and Trademark Office to accord this application the July 25, 2003 filing date because, contrary to what is stated in the August 10, 2004 Notice of Incomplete Reissue Application, the specification, claims and drawings were submitted to, and received by, the U.S. Patent and Trademark Office in view of the Patent Office date-stamped acknowledgement of receipt. Thus, the U.S. Patent and Trademark Office also is respectfully requested to rescind the Notice of Incomplete Reissue Application.

In addition, Applicant submits an executed Reissue Declaration and an executed Consent of Assignee to Reissue (37 C.F.R. §1.172(a)) and Offer to Surrender Letters Patent (37 C.F.R. §1.178). Please note that the signatory of the Consent of Assignee also confirms that he is authorized to act on behalf of the Assignee, and thus satisfies 37 C.F.R. 3.73(b).

The U.S. Patent and Trademark Office is authorized to debit Deposit Account
No. 15-0461 for the \$130 Petition fee under 37 C.F.R. §1.17(i). However, it is respectfully

¹ Applicants never received a return post-card from the Patent Office bearing a serial number for this application.

submitted that the Petition fee should be waived in this application in view of the evidence showing that the application was filed on July 25, 2003. The Patent Office also is hereby authorized to charge Deposit Account No. 15-0461 for the fee associated with late submission of the Reissue Declaration.

The appropriate official of the U.S. Patent and Trademark Office is invited to contact the undersigned if there are any questions relating to this matter.

Respectfully submitted,

James A. Oliff

Registration No. 27,075

Mario A. Costantino Registration No. 33,565

JAO:MAC/ccs

Attachments:

Copy of Notice of Incomplete Reissue Application

Copy of Oliff & Berridge Log Book Page

Copy of PTO Receipt for Filing Papers

Copy of Application Transmittal

Copy of Reissue Application

Copy of Preliminary Amendment filed July 25, 2003

Copy of Consent of Assignee to Reissue

Copy of Reissue Declaration

Copy of Information Disclosure Statement

P.S. At a minimum, the U.S. Patent and Trademark Office is requested to accord today's date to this application in view of the resubmission of the reissue application. However, for the reasons detailed above, it is respectfully submitted that this application is entitled to the July 25, 2003 filing date.

Date: August 17, 2004

OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, Virginia 22320 Telephone: (703) 836-6400 DEPOSIT ACCOUNT USE
AUTHORIZATION
Please grant any extension
necessary for entry;
Charge any fee due to our
Deposit Account No. 15-0461



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vignia 22313-1450 www.uspto.gov

APPLICATION NUMBER

FILING OR 371 (c) DATE

FIRST NAMED APPLICANT

ATTORNEY DOCKET NUMBER

10/626,553

07/25/2003

Yoshio Kumada

112536.98

Oliff & Berridge, PLC P.O. Box 19928 Alexandria, VA 22320

CONFIRMATION NO. 9318 FORMALITIES LETTER

OC000000013491329

Date Mailed: 08/10/2004

NOTICE OF INCOMPLETE REISSUE APPLICATION

FILED UNDER 37 CFR 1.53(b)

A filing date has NOT been accorded to the above identified application papers for the reason(s) indicated below.

All of the items noted below and a newly executed oath or declaration covering the items must be submitted within TWO MONTHS of the date of this Notice, unless otherwise indicated, or proceedings on the application will be terminated (37 CFR 1.53(e)).

The filing date will be the date of receipt of all items required below, unless otherwise indicated. Any assertions that the item(s) required below were submitted, or are not necessary for a filing date, must be by way of petition directed to the attention of the Office of Petitions accompanied by the \$130.00 petition fee (37 CFR 1.17(h)). If the petition states that the application is entitled to a filing date, a request for a refund of the petition fee may be included in the petition.

- The specification is missing.
- The specification does not include at least one claim. A complete specification as prescribed by 35 U.S.C. 112 is required.
- The application was deposited without drawings. 35 U.S.C. 113 (first sentence) requires a drawing "where necessary for the understanding of the subject matter sought to be patented." Applicant should reconsider whether the drawings are necessary under 35 U.S.C. 113 (first sentence).

The required items noted below SHOULD be filed along with any items required above. The filing date of this reissue application will be the date of receipt of the items required above.

- The oath or declaration is missing. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- Consent of assignee is missing. 37 CFR 1.172 requires that a reissue oath/declaration be accompanied by the written consent of all assignees.
- Assignee's statement under 37 CFR 3.73(b) establishing ownership of the patent is missing. 37 CFR 1.172 requires that all assignees consenting to the reissue application establish their ownership interest in the patent by filing in the reissue application a statement in accordance with 37 CFR 3.73(b).

Replies should be mailed to:

Mail Stop Missing Parts

Commissioner for Patents

P.O. Box 1450 Alexandria VA 22313-1450

A copy of this notice MUST be returned with the reply.



Customer Service Center
Initial Patent Examination Division (703) 308-1202
PART 2 - COPY TO BE RETURNED WITH RESPONSE

8 JUL 2.3 2000

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PTO RECEIPT FOR FILING OF PAPERS

/ Iail Room (Regular Delivery)

The following papers have been filed:

Rule 53(b) Continuation Transmittal, check no. 144592 (\$906); Preliminary Amendment; Reissue Application; IDS, PTO-1449 w/ 20 references and translation of Japanese Trial Decision

Name of Applicant: Yoshio KUMADA, Katsuyuki HASHIZUME and Soji KAMIYA

Serial No.:

Rule 53(b) Continuation of Application No. 10/210,813 filed August 2,

2002

Atty. File No.:

112536.98

Title (New Cases):

SLIDING BEARING

Sender's Initials:

JAO:MAC/ccs

NEW APPLICATION

18135



PATENT OFFICE DATE STAMP

COPY TO BE STAMPED BY PATENT OFFICE AND RETURNED BY MESSENGER

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	AUG 1 7 ZUUT	THE UNIT	ED STATES PATEN	T AND TRAI	DEMARK (OFFICE		
OLIFF &	BERRIDGE			Attorney Dock	et No.: 11	2536.98		
P.O. Box	x 199 28 Iria, Virginia	22320			Date: Ju	ly 25, 20	003	
Telepho	ne: (703) 830	5-6400						
Facsimi	le: (703) 836	-2/8/		MAIL STO	P PATEN	Γ APPL	ICATION	
Custome	er Number:	25944	CC	ONTINUING	APPLICAT	rion t	RANSMITT	`AL
	sioner for Pate	ents		31(11)(01)(0	RULE 1.			
P.O. Box Alexand	x 1430 Iria, VA 2231	3-1450						
Sir:								
Transmi	itted herewith	for filing under 3	37 C.F.R. §1.53(b) is a	1				
		ntinuation	☐ Divisional] Continua	tion-in-I	Part	•
applicati No. 5,70		pending Applica	ntion No. <u>10/210,813</u>	, filed Augus	t 2, 2002 ((which i	s a Reissue	of Patent
For (Tit	le):	SLIDING BEA	RING					
By (Inve	entors):	Yoshio KUMA	DA, Katsuyuki HASH	IZUME and S	oji KAMIY	Α		
1.	<u>·</u>		r of Attorney is attache					•
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			of the prior application	•		• •	•	
	□ b.		ion and Power of Attor of the prior application					
			does not contain new					the prior
2.	The filing	ng fee is calculate	ed below:					
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ANY I	PRELIMINAR	Y AMENDMEN	T NOTED BELOW	SMALL	ENTITY		OTHER T	
	FOR:	NO. FILED	NO. EXTRA	RATE	FEE	<u>OR</u>	RATE	FEE
BASIC	FEE				\$ 375	<u>OR</u>		\$ 750
ТОТА	L CLAIMS	24 - 20	= *4	x 9=	\$	<u>OR</u>	x 18	\$ 72
INDE	P CLAIMS	4 - 3	= *1	x 42 =	\$	<u>OR</u>	x 84	\$ 84
			MS PRESENTED	+140 =	\$	<u>OR</u>	+280	\$
* If	the difference	is less than zero,	enter "0".	TOTAL	\$	<u>OR</u>	TOTAL	\$ 906
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3.			e amount of \$906.00 to rge any other fees that		_			
	overpay	ment, to Deposit	Account No. 15-0461					
	Formal Use Fig		1-8) are attached. nt page of Publication					
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necessary for entry;
Charge any fee due to our
Deposit Account No. 15-0461

5.	\boxtimes	Priority of foreign application No. <u>6-073962</u> filed <u>March 18, 1994</u> in <u>Japan</u> is claimed under 35 U.S.C. §119 and/or §365(b).
	\boxtimes	The certified copy was filed in prior International Application No. PCT/JP95/00467.
		A certified copy of the above foreign application(s) is filed herewith.
6.		Priority of U.S. Provisional Application(s) No filed is claimed under 35 U.S.C. §119.
		(A Preliminary Amendment is attached to reflect the claim of benefit in the specification if not already present.)
7.	\boxtimes	The prior application is assigned of record to <u>Taiho Kogyo Co., Ltd.</u> recorded at Reel <u>7873</u> , Frame <u>0589-590</u> .
8.		This application is filed by fewer than all the inventors named in the prior application (37 C.F.R §1.53(b)(1)). Delete the following inventor(s) named in the prior application:
9.	\boxtimes	A Preliminary Amendment is attached. The Preliminary Amendment amends the specification to reflect the continuation data. Claims added by this Amendment are properly numbered consecutively beginning with the number next following the highest numbered claim in the application and claims canceled are identified in the listing of claims.
10.	\boxtimes	An Information Disclosure Statement is attached.
11.		Small entity status:
		a. Entitlement to small entity status is asserted.
		b. Small entity status is no longer claimed.
12.		Other:
13.		This application is NOT to be published under 35 U.S.C. 112(b). The undersigned attorney or agent hereby certifies that the invention disclosed in this application has not been and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.
14.		The power of attorney in the application is to James A. Oliff, Registration No. 27,075, William P. Berridge, Registration No. 30,024, Kirk M. Hudson, Registration No. 27,562, Thomas J. Pardini, Registration No. 30,411, Edward P. Walker, Registration No. 31,450, Robert A. Miller, Registration No. 32,771, Mario A. Costantino, Registration No. 33,565, Stephen J. Roe, Registration No. 34,463, Joel S. Armstrong, Registration No. 36,430, Christopher W. Brown, Registration No. 38,025, Richard E. Rice, Registration No. 31,560, Paul Tsou, Registration No. 37,956, and/or Eric D. Morehouse, Registration No. 38,565.
		a. The power appears in the attached Declaration and Power of Attorney.
		 b. Since the power does not appear in the attached Declaration and Power of Attorney, a substitute Power of Attorney is also attached.
15.	\boxtimes	Address all future communications to:
		OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, Virginia 22320
		Respectfully submitted, James A. Oliff

Registration No. 27,075

Mario A. Costantino Registration No. 33,565

JAO:MAC/ccs

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Reissue Application of

Yoshio KUMADA, Katsuyuki HASHIZUME and Soji KAMIYA

Application No.: Rule 53(b) Continuation of Application No. 10/210,813 (which is a Reissue of U.S. Patent No. 5,704,720 issued January 6, 1998 (Application No. 08/553,584 filed February 26, 1996))

Filed: July 25, 2003 Docket No.: 112536.98

For: SLIDING BEARING

PRELIMINARY AMENDMENT FILED IN REISSUE APPLICATION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Prior to initial examination on the merits, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Col. 1, before the first line of the specification, and after the title, please insert a new paragraph as follows:

--This is one of two (2) reissue applications directed to various aspects of a sliding bearing described in U.S. Patent No. 5,704,720, which corresponds to U.S. Patent

Application No. 08/553,584 filed February 26, 1996, which is the U.S. national stage of International Application No. PCT/JP95/00467, filed March 17, 1995. The first filed reissue application is Application No. 10/210,813, filed August 2, 2002. The second reissue application is the present application, which is a continuation of said Application

No. 10/210,813. As noted above, this is a continuation of Application No. 10/210,813, filed

Rule 53(b) Continuation of Application No. 10/210,813 Filed August 2, 2002

August 2, 2002, which is a reissue of U.S. Patent No. 5,704,720, which corresponds to U.S. Patent Application No. 08/553,584 filed February 26, 1996, which is the U.S. national stage of International Application No. PCT/JP95/00467, filed March 17, 1995.-IN THE CLAIMS:

Please cancel original patent claims 6, 7, 11, 12, 16 and 17 without prejudice to or disclaimer of the subject matter contained therein.

REMARKS

Claims 1-5, 8-10, 13-15 and 18-30 are pending. By this Amendment, original patent claims 6, 7, 11, 12, 16 and 17 have been cancelled. Please note that the above-identified cancelled claims were rewritten in independent form (either by rewriting the claims in independent form or by placing their features into their corresponding independent claim) in the above-identified parent reissue application. Accordingly, the above-noted claims are cancelled so that there are no redundant claims between the present application and the parent application. Please note that claims 21-23, added in this reissue application, correspond to claims 21-23, which were added in the parent reissue application. In addition, claims 24-30 of this reissue application, correspond to claims 39-43, 46 and 47, respectively, from the parent reissue application. During prosecution of the parent reissue application, features of an objected-to claim were placed into independent claim 39. Thus, claims 24-30 of the present application are not redundant to claims 39-43, 46 and 47 of the parent reissue application.

Applicants respectfully submit that all pending claims of this reissue application are in patentable for the reasons set forth in Applicants' responses filed in the parent application.

The Information Disclosure Statement (IDS) filed herewith submits copies of all references of record from the original patent prosecution and from the prosecution of the parent reissue application, which includes a copy of JP-U-63-53922 (hereafter JP-922), along

Rule 53(b) Continuation of Application No. 10/210,813 Filed August 2, 2002

with an English-language translation thereof. JP-922 was cited in an Opposition against the corresponding Japanese patent of U.S. Patent No. 5,704,720. A copy of a Trial Decision revoking the claims of the corresponding Japanese patent based upon JP-922 is attached hereto. Applicants respectfully submit that all claims of this reissue application are patentable over JP-922.

Examination and allowance in due course are earnestly solicited.

Respectfully submitted,

James A. Oliff

Registration No. 27,075

Mario A. Costantino Registration No. 33,565

JAO:MAC/ccs

Enclosure:

Translation of Japanese Trial Decision

Date: July 25, 2003

OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, Virginia 22320 Telephone: (703) 836-6400 DEPOSIT ACCOUNT USE AUTHORIZATION

Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461

P E JOJO DIE

REISSUE PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Reissue Application of

Patentee(s): Yoshio KUMADA, Katsuyuki HASHIZUME

and Soji KAMIYA

Application No.: Rule 53(b) Continuation of Application No. 10/210,813 (which is a

Reissue of U.S. Patent No. 5,704,720 issued January 6, 1998)

Filed:

July 25, 2003

Docket No.: 112536.98

For:

SLIDING BEARING

CONSENT OF ASSIGNEE TO REISSUE (37 C.F.R. §1.172(a)) AND OFFER TO SURRENDER LETTERS PATENT (37 C.F.R. §1.178)

Director of the U.S. Patent and Trademark Office Washington, D.C. 20231

Sir:

The Assignee, Taiho Kogyo Co., Ltd (by Assignment recorded in the U.S. Patent and Trademark Office at Reel 7873, Frames 0589-0590), of U.S. Patent No. 5,704,720 (granted January 6, 1998) hereby consents to this reissue application.

In accordance with 37 C.F.R §1.178, Taiho Kogyo Co., Ltd hereby offers to surrender U.S. Letters Patent 5,704,720 upon allowance of this reissue application.

The undersigned hereby confirms that he has authority to sign this Consent on behalf of the Assignee.

Date:

August 26, 2003

Signature:

Seihachi Takahashi

Name:

Title: President

REISSUE PATENT APPLICATION

N THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Reissue Application of

Patentee(s): Yoshio KUMADA, Katsuyuki HASHIZUME

and Soji KAMIYA

Application No.: Rule 53(b) Continuation of Application No. 10/210,813 (which is a

Reissue of U.S. Patent No. 5,704,720 issued January 6, 1998)

Filed: July 25, 2003

Docket No.: 112536.98

For:

SLIDING BEARING

REISSUE DECLARATION

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

- I, Seihachi Takahashi, hereby declare that:
- 1. I am a citizen of Japan with the mailing address and residence as stated below next to my name.
- 2. I am authorized to act on behalf of Taiho Kogyo Co., Ltd., which is the assignee of the patent identified above.
 - 3. The title of my position with the assignee, Taiho Kogyo Co., Ltd. is President.
- 4. The entire title to the above-identified patent is vested with Taiho Kogyo Co., Ltd.
- 5. I believe that the above-identified patentees are the original, first and joint inventors of the subject matter described and claimed in this reissue application and in the above-identified U.S. Letters Patent No. 5,704,720, which issued from U.S. Patent Application No. 08/553,584 filed February 26, 1996, which is the U.S. National Stage of International Application No. PCT/JP95/00467 filed March 17, 1995.

Application No.: Rule 53(b) Cont. of Appl. No. 10/210,813 (which is a Reissue of U.S. Patent No. 5,704,720)

- 6. I have reviewed and understand the contents of the specification and claims of the above-captioned reissue application and this Reissue Declaration.
- 7. I acknowledge the duty to disclose information which is material to the examination of this reissue application in accordance with 37 C.F.R §1.56.
- 8. The priority benefits of the following application is claimed: Japanese Patent Application No. 6-073962 filed in Japan on March 18, 1994.
- 9. I consider U.S. Patent No. 5,704,720 to be wholly or partly inoperative or invalid by reason of the patentee claiming more or less than he had a right to claim. At least one error upon which reissue is based is described below. For example, issued claim 3 refers to a pitch of 0.2 μ m between adjacent peaks, whereas the specification discloses the pitch to be 0.2 mm (200 μ m). See, for example, col. 2, lines 58-61 of the patent.
- 10. All errors corrected in this reissue application up to the time of filing this declaration arose without any deceptive intention on the part of applicant.
- 11. I hereby revoke all prior powers of attorney and appoint the following as my attorneys of record with full power of substitution and revocation to prosecute this application and to transact all business in the Patent Office:

James A. Oliff, Reg. No. 27,075; William P. Berridge, Reg. No. 30,024; Kirk M. Hudson, Reg. No. 27,562; Thomas J. Pardini, Reg. No. 30,411; Edward P. Walker, Reg. No. 31,450; Robert A. Miller, Reg. No. 32,771; Mario A. Costantino, Reg. No. 33,565; Stephen J. Roe, Reg. No. 34,463; Joel S. Armstrong, Reg. No. 36,430; Christopher W. Brown, Reg. No. 38,025; Richard E. Rice, Reg. No. 31,560; and Paul Tsou, Reg. No. 37,956.

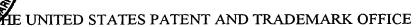
All correspondence in connection with this application should be sent to Oliff & Berridge, PLC, P.O. Box 19928, Alexandria, Virginia 22320, telephone (703) 836-6400.

Application No.: Rule 53(b) Cont. of Appl. No. 10/210,813 (which is a Reissue of U.S. Patent No. 5,704,720)

12. I have reviewed and understand the contents of this Reissue Declaration, and all statements made herein of my knowledge are true, and all statements made on information and belief are believed to be true; and further these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the U.S. Code and that such willful false statements may jeopardize the validity of the application or any patent reissued thereon.

Date:	August 26, 2003		Seihadhi Takahashir
		Name:	Seihachi Takahashi
		Title:	President
		Residence:	Toyota-shi, JAPAN
		Address:	c/o Taiho Kogyo Co., Ltd.
			65, Midorigaoka 3-Chome, Toyota-shi
			Aichi-ken 471, JAPAN
	Patentee Name:		Yoshio KUMADA
		Citizenship:	JAPAN
		Residence:	Toyota-shi, JAPAN
		Address:	· ·
			65, Midorigaoka 3-Chome, Toyota-shi
			Aichi-ken 471, JAPAN
			•
	Patentee Name:		Katsuyuki HASHIZUME
		Citizenship:	JAPAN
		Residence:	Toyota-shi, JAPAN
		Address:	c/o Taiho Kogyo Co., Ltd.
			65, Midorigaoka 3-Chome, Toyota-shi
			Aichi-ken 471, JAPAN
	Patentee Name:		Soji KAMIYA
		Citizenship:	JAPAN
	e e e e e e e e e e e e e e e e e e e	Residence:	Toyota-shi, JAPAN
	•	Address:	c/o Taiho Kogyo Co., Ltd.
			65, Midorigaoka 3-Chome, Toyota-shi
			Aichi-ken 471, JAPAN





In re the Reissue Application of

Yoshio KUMADA, Katsuyuki HASHIZUME and Soji KAMIYA

Application No.: Rule 53(b) Continuation of Application No. 10/210,813 (which is a Reissue of U.S. Patent No. 5,704,720 issued January 6, 1998 (Application No. 08/553,584 filed February 26, 1996))

Filed: July 25, 2003

Docket No.: 112536.98

For:

SLIDING BEARING

INFORMATION DISCLOSURE STATEMENT

Director of the U.S. Patent and Trademark Office Washington, D.C. 20231

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- 2. This IDS submits (i) copies of the references of record on the face of U.S. Patent No. 5,704,720, and (ii) JP-U-63-53922 (hereafter JP-922) and an English-language translation thereof. JP-922 was cited in an Opposition against the corresponding Japanese patent of U.S. Patent No. 5,704,720.

Respectfully submitted,

James A. Oliff

Registration No. 27,075

Mario A. Costantino Registration No. 33,565

JAO:MAC/ccs Date: July 25, 2003

OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, Virginia 22320 Telephone: (703) 836-6400 DEPOSIT ACCOUNT USE AUTHORIZATION

Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461

Sheet	l	of	2	

Form PTO-1449 (REV. 8-83) PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT		ATTY DOCKET NO. 112536.98			APPLICATION NO. Rule 53(b) Continuation of Appl. No. 10/210,813 (Reissue of U.S. Patent No. 5,704,720 filed January 6, 1998)		
(Use several sheets if necessary)			APPLICA Yoshio K	ANT(S) UMADA, Katsuyuki HASHIZUME			
			FILING I July 25, 2		GRO	UP	
	U.S	. PATI	ENT DOCU			,	
EXAMINER INITIAL	DOCUMENT NUMBER		DATE	NAME		CLASS	SUB CLASS
	4,400,099	08-	1983	Ehrentraut			
	4,538,929	09-	1985	Ehrentraut et al.			
	4,561,787	12-	1985	Ehrentraut et al.			
	4,606,653	.08-	1986	Ehrentraut et al.			
	5,071,263	12-	1991	Kamiya et al.			
	5,116,144	05-	1992	Kamiya et al.		1.	
	5,238,311	08-	1993	Katou et al.			
FOREIGI		IGN PA	PATENT DOCUMENTS				
	DOCUMENT NUMBER		DATE	COUNTRY		CLASS	SUB CLASS
	385 822 B	05-	1988	Austria			
	EP 0 155 257 A2	09-1985 09-1985		Еигоре			
	EP 0 155 257 B1			Еигоре			
	JP-A-60-205014	10-1	1985	Japan			
	JP-A-63-6215	01-1988		Japan			
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Form PTO-1449 US Dept. of Commerce (REV. 8-83) PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 112536.98			APPLICATION NO. Rule 53(b) Continuation of Appl. No. 10/210,813		
INFORMATION DISCLOSURE STATEMENT			(Rei No.			eissue of U.S. Patent . 5,704,720 filed nuary 6, 1998)	
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- 21. A sliding bearing according to claim 1, in which the valley-shaped recess has a cross-sectional shape that is not exactly geometrically circular.
- 22. A sliding bearing according to claim 9, in which the valley-shaped recess has a cross-sectional shape that is not exactly geometrically circular.
- 23. A sliding bearing according to claim 15, in which the valley-shaped recess has a cross-sectional shape that is not exactly geometrically circular.
- 24. A sliding bearing including a plurality of axially spaced, annular continuous or discontinuous peaks which extend circumferentially on a surface of the sliding bearing which comes into sliding contact with a rotating shaft in which, as viewed in an axial cross-section, the various portions are defined on the basis of an imaginary reference line which intersects with individual peak regions, extends parallel to the axis and is determined such that the total cross-sectional area of peak regions located above the reference line is equal to the total cross-sectional area of valley-shaped recess regions located below the reference line, the top of the peak having a height ΔC above the imaginary reference line and a height as measured from the bottom of the valley-shaped recess to the top of the peak, denoted by h, the parameter ΔC being taken on an ordinate and the parameter h being taken on the abscissa in a graphical representation, the parameters ΔC and h being located within an area defined by four rectilinear lines given by the following mathematical equations:

$\underline{\mathbf{h}} = \underline{\Delta \mathbf{C}}$	*	<u>(1)</u>
$h=5/1.9\Delta C$		<u>(2)</u>
<u>h=8</u>		(3)
ΔC=1		<u>(4)</u>

and wherein Δ C/h is not between 0.666 and 0.669, in which h and Δ C are measured in unit of μ m.

- 25. A sliding bearing according to claim 24, in which Δ C is from 1 to 8 μm.
- 26. A sliding bearing according to claim 24, in which the pitch is 200 μm.

- 27. A sliding bearing according to claim 24, in which a helical groove is formed in the sliding surface to define an annular continuous peak which extends circumferentially between axially adjacent grooves.
- 28. A sliding bearing according to claim 24, in which a plurality of annular grooves are formed in the sliding surface to define a plurality of annular peaks which extend circumferentially between axially adjacent annular grooves, adjacent peaks being discontinuous from each other.
- 29. A sliding bearing according to claim 24, in which the valley-shaped recess has a cross-sectional shape that is not exactly geometrically circular.
 - 30. A sliding bearing according to claim 24, in which h<3.